

ENTERED



OICE

RAW SEQUENCE LISTING

DATE: 03/24/2003

PATENT APPLICATION: US/10/034,015A

TIME: 10:09:53

Input Set : N:\CrF4\03102003\J034015.raw

Output Set: N:\CRF4\03242003\J034015A.raw

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1 <110> APPLICANT: Loughney, Kate
2 <120> TITLE OF INVENTION: Phosphodiesterase 10
3 <130> FILE REFERENCE: 27466/35308
4 <140> CURRENT APPLICATION NUMBER: US/10/034,015A
5 <141> CURRENT FILING DATE: 2001-12-20
6 <150> PRIOR APPLICATION NUMBER: 60/075,508
7 <151> PRIOR FILING DATE: 1998-02-23
8 <160> NUMBER OF SEQ ID NOS: 26
9 <170> SOFTWARE: PatentIn Ver. 2.0
10 <210> SEQ ID NO: 1
11 <211> LENGTH: 1543
12 <212> TYPE: DNA
13 <213> ORGANISM: Homo sapiens
14 <220> FEATURE:
15 <221> NAME/KEY: CDS
16 <222> LOCATION: (26)..(1423)
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18      cccaaggcca ttaccaggga catcg atg gac gca ttc aga agc act ccc tac      52
19                                     Met Asp Ala Phe Arg Ser Thr Pro Tyr
20                                     1           5
21      aaa gtg aga cct gtg gca atc aag caa ctc tcc gag aga gaa gaa tta      100
22      Lys Val Arg Pro Val Ala Ile Lys Gln Leu Ser Glu Arg Glu Glu Leu
23      10           15           20           25
24      att cag agc gtg ctg gcg cag gtt gca gag cag ttc tca aga gca ttc      148
25      Ile Gln Ser Val Leu Ala Gln Val Ala Glu Gln Phe Ser Arg Ala Phe
26      30           35           40
27      aaa atc aat gaa ctg aaa gct gaa gtt gca aat cac ttg gct gtc cta      196
28      Lys Ile Asn Glu Leu Lys Ala Glu Val Ala Asn His Leu Ala Val Leu
29      45           50           55
30      gag aaa cgc gtg gaa ttg gaa gga cta aaa gtg gtg gag att gag aaa      244
31      Glu Lys Arg Val Glu Leu Gln Gly Leu Lys Val Val Glu Ile Glu Lys
32      60           65           70
33      tgc aag agt gac att aag aag atg agg gag gag ctg gcg gcc aga agc      292
34      Cys Lys Ser Asp Ile Lys Lys Met Arg Glu Glu Leu Ala Ala Arg Ser
35      75           80           85
36      agc agc acc aac tgc ccc tgt aag tac agt ttt ttg gat aac cac aag      340
37      Ser Arg Thr Asn Cys Pro Cys Lys Tyr Ser Phe Leu Asp Asn His Lys
38      90           95           100           105
39      aag ttg act cct cca cgc gat gtt ccc act tac ccc aag tac ctg ctc      388
40      Lys Leu Thr Pro Arg Arg Asp Val Pro Thr Tyr Pro Lys Tyr Leu Leu
41      110           115           120
42      tct cca gag acc atc gag gct ctg ccc aag ccc att tta gaa ttc tgg      436
43      Ser Pro Glu Thr Ile Val Ala Leu Arg Lys Pro Thr Phe Asp Val Trp

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45		125		130		135	
46	ctt tgg gag ccc aat gag atg ctg agc tgc ctg gag cac atg tac cac						464
47	Leu Trp Glu Pro Asn Glu Met Leu Ser Cys Leu Glu His Met Tyr His						
48		140		145		150	
49	gac ctc ggg ctg gtc agg gac ttc agc atc aac cct gtc acc ctc agg						532
50	Asp Leu Gly Leu Val Arg Asp Phe Ser Ile Asn Pro Val Thr Leu Arg						
51		155		160		165	
52	agg tgg ctg ttc tgc gtc cac gac aac tac aga aac aac ccc ttc cac						580
53	Arg Trp Leu Phe Cys Val His Asp Asn Tyr Arg Asn Asn Pro Phe His						
54		170		175		180	185
55	aac ttc cgg cac tgc ttc tgc gtc gcc agc atg atg tac agc atg gtc						623
56	Asn Phe Arg His Cys Phe Cys Val Ala Glu Met Met Tyr Ser Met Val						
57		190		195		200	
58	tgg ctc tgc agt ctc cag gag aag ttc tca caa acc gat atc cag atc						676
59	Trp Leu Cys Ser Leu Glu Glu Lys Phe Ser Glu Thr Asp Ile Leu Ile						
60		205		210		215	
61	cta atg aca ggg gcc atc tgc cac gat ctg gac cat ccc ggc tac aac						724
62	Leu Met Thr Ala Ala Ile Cys His Asp Leu Asp His Pro Gly Tyr Asn						
63		220		225		230	
64	aac acc tac cag atc aat gcc cgg aca gag ctg gcc gtc cgc tac aat						772
65	Asn Thr Tyr Glu Ile Asn Ala Arg Thr Glu Leu Ala Val Arg Tyr Asn						
66		235		240		245	
67	gac atc tca cgg ctg gag aac cac cac tgc gcc gtc gcc ttc cag atc						820
68	Asp Ile Ser Pro Leu Glu Asn His His Cys Ala Val Ala Phe Glu Ile						
69		250		255		260	265
70	ctc gcc gag cct gag tgc aac atc ttc tcc aac atc cca cct gat ggg						863
71	Leu Ala Glu Pro Glu Cys Asn Ile Phe Ser Asn Ile Pro Pro Asp Gly						
72		270		275		280	
73	ttc aag cag atc cga cag gga atg atc aca tta atc ttg gcc cct gac						916
74	Phe Lys Glu Ile Arg Glu Gly Met Ile Thr Leu Ile Leu Ala Thr Asp						
75		285		290		295	
76	atg gca aga cat gca gaa att atg gat tct ttc aaa gag aaa atg gag						964
77	Met Ala Arg His Ala Glu Ile Met Asp Ser Phe Lys Glu Lys Met Glu						
78		300		305		310	
79	aat ttt gac tac agc aac gag gag cac atg acc ctg ctg aag atg att						1012
80	Asn Phe Asp Tyr Ser Asn Glu Glu His Met Thr Leu Leu Lys Met Ile						
81		315		320		325	
82	ttg ata aaa tgc tgt gat atc tct aac gag gtc cgt cca atg gaa gtc						1060
83	Leu Ile Lys Cys Cys Asp Ile Ser Asn Glu Val Arg Pro Met Glu Val						
84		330		335		340	345
85	gca gag cct tgg gtc gac tgt tta tta gag gaa tat ttt atg cag agc						1108
86	Ala Glu Pro Trp Val Asp Cys Leu Leu Glu Glu Tyr Phe Met Glu Ser						
87		350		355		360	
88	gac cgt gag aag tca gaa ggc ctt cct gtc gca cgg ttc atg gac cga						1156
89	Asp Arg Glu Lys Ser Glu Gly Leu Pro Val Ala Pro Phe Met Asp Arg						
90		365		370		375	
91	gac aaa gtg acc aag gcc aca gcc cag att ggg ttc atc aag ttt gtc						1204
92	Asp Lys Val Thr Lys Ala Thr Ala Glu Ile Gly Phe Ile Lys Phe Val						
93		380		385		390	

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Input Set : N:\Crf4\03102003\J034015.raw

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94      ctg atc cca atg ttc gaa aca gtg acc aag ctc ttc ccc atg gtt gag      1262
95      Leu Ile Pro Met Phe Glu Thr Val Thr Lys Leu Phe Pro Met Val Glu
96      395              400              405
97      gag atc atg ctg cag cca ctt tgg gaa tcc cga gat cgc tac gag gag      1300
98      Glu Ile Met Leu Gln Pro Leu Trp Glu Ser Arg Asp Arg Tyr Glu Glu
99      410              415              420              425
100     ctg aag cgg ata gat gac ggc atg aaa gag tta bag aag aag act gac      1348
101     Leu Lys Arg Ile Asp Asp Ala Met Lys Glu Leu Gln Lys Lys Thr Asp
102     430              435              440
103     agc ttg aag tct ggg ggc acc gag aag tcc aga ggg aga agc aga gat      1396
104     Ser Leu Thr Ser Gly Ala Thr Glu Lys Ser Arg Gly Arg Ser Arg Asp
105     445              450              455
106     gtg aaa aac agt gaa gga gac tgt ggc tgaggaaaagc gggggggcgtg      1443
107     Val Lys Asn Ser Glu Gly Asp Cys Ala
108     460              465
109     gatgagcttc tggacgggct ggcgagctg cgcgggcatcc ttgtgagggg aagagctgcc      1503
110     ctgggacact ggcaccacaa gaccatggtt tctaagaacc atttt      1548
111 (210) SEQ ID NO: 2
112 (211) LENGTH: 466
113 (212) TYPE: PRT
114 (213) ORGANISM: Homo sapiens
115 (400) SEQUENCE: 1
116     Met Asp Ala Phe Arg Ser Thr Pro Tyr Lys Val Arg Pro Val Ala Ile
117     1              5              10              15
118     Lys Gln Leu Ser Glu Arg Glu Glu Leu Ile Gln Ser Val Leu Ala Gln
119     20              30              35
120     Val Ala Glu Gln Phe Ser Arg Ala Phe Lys Ile Asn Glu Leu Lys Ala
121     40              45
122     Glu Val Ala Asn His Leu Ala Val Leu Glu Lys Arg Val Glu Leu Glu
123     50              55              60
124     Gly Leu Lys Val Val Glu Ile Glu Lys Cys Lys Ser Asp Ile Lys Lys
125     65              70              75              80
126     Met Arg Glu Glu Leu Ala Ala Arg Ser Ser Arg Thr Asn Cys Pro Cys
127     85              90              95
128     Lys Tyr Ser Phe Leu Asp Asn His Lys Lys Leu Thr Pro Arg Arg Asp
129     100              105              110
130     Val Pro Thr Tyr Pro Lys Tyr Leu Leu Ser Pro Glu Thr Ile Glu Ala
131     115              120              125
132     Leu Arg Lys Pro Thr Phe Asp Val Trp Leu Trp Glu Pro Asn Glu Met
133     130              135              140
134     Leu Ser Cys Leu Glu His Met Tyr His Asp Leu Gly Leu Val Arg Asp
135     145              150              155              160
136     Phe Ser Ile Asn Pro Val Thr Leu Arg Arg Trp Leu Phe Cys Val His
137     165              170              175
138     Asp Asn Tyr Arg Asn Asn Pro Phe His Asn Phe Arg His Cys Phe Cys
139     180              185              190
140     Val Ala Gln Met Met Tyr Ser Met Val Trp Leu Cys Ser Leu Gln Glu
141     195              200              205
142     Lys Phe Ser Gln Thr Asp Ile Leu Ile Leu Met Thr Ala Ala Ile Cys
143

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TIME: 10:00:53

Input Set : N:\Crf4\03102003\J034015.raw

Output Set: N:\CRF4\03242003\J034015A.raw

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144          210          215          220
145 His Asp Leu Asp His Pro Gly Tyr Asn Asn Thr Tyr Gln Ile Asn Ala
146      225          230          235          240
147 Arg Thr Glu Leu Ala Val Arg Tyr Asn Asp Ile Ser Pro Leu Glu Asn
148          245          250          255
149 His His Cys Ala Val Ala Phe Gln Ile Leu Ala Glu Pro Glu Lys Asn
150          260          265          270
151 Ile Phe Ser Asn Ile Pro Pro Asp Gly Phe Lys Gln Ile Arg His Gly
152      275          280          285
153 Met Ile Thr Leu Ile Leu Ala Thr Asp Met Ala Arg His Ala Glu Ile
154      290          295          300
155 Met Asp Ser Phe Lys Glu Lys Met Glu Asn Phe Asp Tyr Ser Asn Glu
156      305          310          315          320
157 Glu His Met Thr Leu Leu Lys Met Ile Leu Ile Lys Cys Cys Asp Ile
158          325          330          335
159 Ser Asn Glu Val Arg Pro Met Glu Val Ala Glu Pro Trp Val Asp Cys
160          340          345          350
161 Leu Leu Glu Glu Tyr Phe Met Gln Ser Asp Arg Glu Lys Ser Glu Gly
162          355          360          365
163 Leu Pro Val Ala Pro Phe Met Asp Arg Asp Lys Val Thr Lys Ala Thr
164      370          375          380
165 Ala Gln Ile Gly Phe Ile Lys Phe Val Leu Ile Pro Met Phe Glu Thr
166      385          390          395          400
167 Val Thr Lys Leu Phe Pro Met Val Glu Glu Ile Met Leu Gln Pro Leu
168          405          410          415
169 Trp Glu Ser Arg Asp Arg Tyr Glu Glu Leu Lys Arg Ile Asp Asp Ala
170          420          425          430
171 Met Lys Glu Leu Gln Lys Lys Thr Asp Ser Leu Thr Ser Gly Ala Thr
172          435          440          445
173 Glu Lys Ser Arg Gly Arg Ser Arg Asp Val Lys Asn Ser Glu Gly Asp
174          450          455          460
175 Cys Ala
176      465

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178 <210> SEQ ID NO: 3

179 <211> LENGTH: 216

180 <212> TYPE: DNA

181 <213> ORGANISM: Homo sapiens

182 <220> FEATURE:

183 <221> NAME/KEY: misc_feature

184 <222> LOCATION: 130

185 <223> OTHER INFORMATION: N = A, T, G, or C

186 <220> FEATURE:

187 <221> NAME/KEY: misc_feature

188 <222> LOCATION: 186

189 <223> OTHER INFORMATION: N = A, T, G, or C

190 <220> FEATURE:

191 <221> NAME/KEY: misc_feature

192 <222> LOCATION: 205

193 <223> OTHER INFORMATION: N = A, T, G, or C

RAW SEQUENCE LISTING

DATE: 03/24/2003

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TIME: 10:09:53

Input Set : N:\Crf4\03102003\J034015.raw

Output Set: N:\CRF4\03242003\J034015A.raw

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194 <400> SEQUENCE: 3
195      a:cgacggtg agaagtcaga aggccttcct gtggaaacgt tcatggacgg agacaaagtg 60
196      a:caaggccg cagcccagat tgggttcata aagtttgccc tgatcccaat gtttgaaaca 120
W--> 197      gtgaccaagn tcttccccc atgttgaggag atcatgtctg agccactttg ggaatcccga 180
198      g:tcgntabg aggaqctgaa gggntagat gaagccatga aagag 225
199 <210> SEQ ID NO: 4
200 <211> LENGTH: 158
201 <212> TYPE: DNA
202 <213> ORGANISM: Homo sapiens
203 <214> FEATURE:
204 <215> NAME/KEY: misc_feature
205 <216> LOCATION: 12
206 <217> OTHER INFORMATION: N = A, T, G, or C
207 <218> FEATURE:
208 <219> NAME/KEY: misc_feature
209 <220> LOCATION: 37
210 <221> OTHER INFORMATION: N = A, T, G, or C
211 <222> FEATURE:
212 <223> NAME/KEY: misc_feature
213 <224> LOCATION: 62
214 <225> OTHER INFORMATION: N = A, T, G, or C
215 <226> FEATURE:
216 <227> NAME/KEY: misc_feature
217 <228> LOCATION: 110
218 <229> OTHER INFORMATION: N = A, T, G, or C
219 <400> SEQUENCE: 4
W--> 221      gtaccagatc antgcccgca cagagctggc ggtccgntac aatgacatct caccgttgga 60
222      g:aaacacaa ctggtccctg gctttccaga tcttcgcaga gcttgagtgn aacatcttct 120
223      ccaacatccc acctgatggg ttcaagcaga tccgacag 158
224 <210> SEQ ID NO: 5
225 <211> LENGTH: 98
226 <212> TYPE: DNA
227 <213> ORGANISM: Homo sapiens
228 <214> FEATURE:
229 <215> NAME/KEY: misc_feature
230 <216> LOCATION: 14
231 <217> OTHER INFORMATION: N = A, T, G, or C
232 <218> FEATURE:
233 <219> NAME/KEY: misc_feature
234 <220> LOCATION: 20
235 <221> OTHER INFORMATION: N = A, T, G, or C
236 <222> FEATURE:
237 <223> NAME/KEY: misc_feature
238 <224> LOCATION: 50
239 <225> OTHER INFORMATION: N = A, T, G, or C
240 <400> SEQUENCE: 5
W--> 242      gagaacacca ctgngccgtg gnettcacaga tcttcgcaga gcttgagtgn aacatcttct 60
243      ccaacatccc acctgatggg ttcaagcaga tccgacag 98
244 <210> SEQ ID NO: 6

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/034,015A

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Input Set : N:\Crf4\03102003\J034015.raw
Output Set: N:\CRF4\03242003\J034015A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 130,186,205
Seq#:4; N Pos. 12,37,62,110
Seq#:5; N Pos. 14,22,50
Seq#:6; N Pos. 1,267,352,400,411
Seq#:7; N Pos. 1,82,92,130,347,390,396
Seq#:8; N Pos. 63,98,107,188,203,206,238,252,297,370,389,427
Seq#:11; N Pos. 155,393,442

VERIFICATION SUMMARY

DATE: 03/24/2003

PATENT APPLICATION: US/10/034,015A

TIME: 10:09:54

Input Set : N:\Crf4\03102003\J034015.raw

Output Set: N:\CRF4\03242003\J034015A.raw

L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
M:341 Repeated in SeqNo=3
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
M:341 Repeated in SeqNo=7
L:374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:60
M:341 Repeated in SeqNo=8
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:120
M:341 Repeated in SeqNo=11

STATISTICS SUMMARY

DATE: 03/24/2003

PATENT APPLICATION: US/10/034,015A

TIME: 10:09:54

Input Set : N:\Crf4\03102003\J034015.raw

Output Set: N:\CRF4\03242003\J034015A.raw

Application Serial Number: US/10/034,015A

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 12-20-2001

Art Unit: OIPE

Software Application: PatentIN2.0

Total Number of Sequences: 26

Total Nucleotides: 11625

Total Amino Acids: 2452

Number of Errors: 0

Number of Warnings: 22

Number of Corrections: 0

MESSAGE SUMMARY

341 W: 22 ((46) "n" or "Xaa" used)